SONY

3-284-083-**11**(1)

Multi Channel AV Receiver

Operating Instructions

STR-DG520

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Owner's Record

The model and serial numbers are located on the rear of the unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No._____
Serial No. _____

WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

To prevent fire, do not cover the ventilation of the apparatus with newspapers, table-cloths, curtains, etc. And don't place lighted candles on the apparatus.

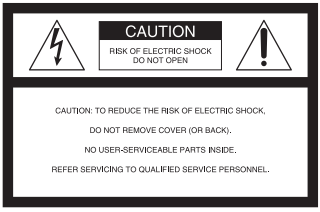
To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

Install this system so that the power cord can be unplugged from the wall socket immediately in the event of trouble.

Batteries or batteries installed apparatus shall not be exposed to excessive heat such as sunshine, fire or the like.

For customers in the United States


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

CAUTION

You are cautioned that any changes or modification not expressly approved in this manual could void your authority to operate this equipment.

Note to CATV system installer:

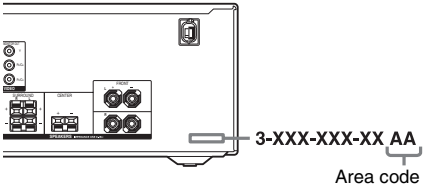
This reminder is provided to call CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

About This Manual

- The instructions in this manual are for model STR-DG520. Check your model number by looking at the lower right corner of the front panel. In this manual, models of area code U is used for illustration purposes unless stated otherwise. Any difference in operation is clearly indicated in the text, for example, “Models of area code U only”.
- The instructions in this manual describe the controls on the supplied remote. You can also use the controls on the receiver if they have the same or similar names as those on the remote.

About area codes

The area code of the receiver you purchased is shown on the lower right portion of the rear panel (see the illustration below).



Any differences in operation, according to the area code, are clearly indicated in the text, for example, “Models of area code AA only”.

This receiver incorporates Dolby* Digital and Pro Logic Surround and the DTS** Digital Surround System.

* Manufactured under license from Dolby Laboratories.
Dolby, Pro Logic, and the double-D symbol are trademarks of Dolby Laboratories.

** Manufactured under license under U.S. Patent #’s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,487,535 & other U.S. and worldwide patents issued & pending. DTS and DTS Digital Surround are registered trademarks and the DTS logos and Symbol are trademarks of DTS, Inc.
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This receiver incorporates High-Definition Multimedia Interface (HDMI™) technology. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

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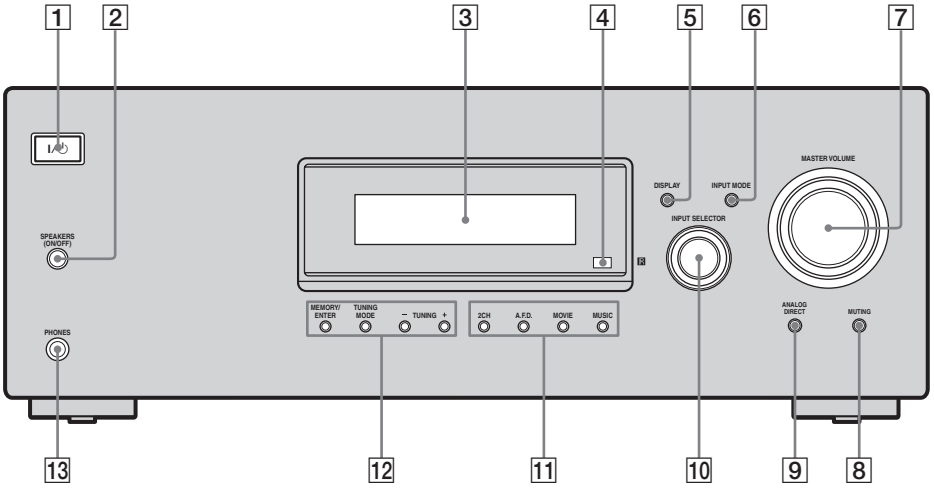
Description and location of parts

Front panel



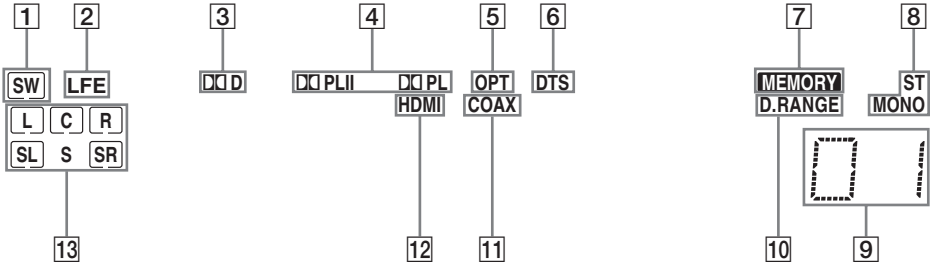
Name	Function
1 **I/⏻ (on/standby)**	Press to turn the receiver on or off (page 25, 29, 30, 45, 62).
2 **SPEAKERS (ON/OFF)**	Press to turn the speaker system on or off (page 14).
3 **Display**	The current status of the selected component or a list of selectable items appears here (page 7).
4 **Remote sensor**	Receives signals from remote commander.
5 **DISPLAY**	Press to select information displayed on the display (page 53).
6 **INPUT MODE**	Press to select the input mode when the same components are connected to both digital and analog jacks (page 50).

Name	Function
7 **MASTER VOLUME**	Turn to adjust the volume level of all speakers at the same time (page 27, 28, 29, 30).
8 **MUTING**	Press to turn off the sound temporarily. Press MUTING again to restore the sound (page 28).
9 **ANALOG DIRECT**	Press to listen to high quality analog sound (page 45).
10 **INPUT SELECTOR**	Turn to select the input source to play back (page 28, 29, 30, 45, 46, 48, 49, 50, 52, 54).
11 **2CH** **A.F.D.** **MOVIE** **MUSIC**	Press to select a sound field (page 40).

continued

Name		Function
12	**MEMORY/ ENTER**	Press to operate the tuner (FM/AM) (page 46).
	TUNING MODE	
	TUNING +/–	
13	**PHONES jack**	Connects to headphones (page 58).

About the indicators on the display



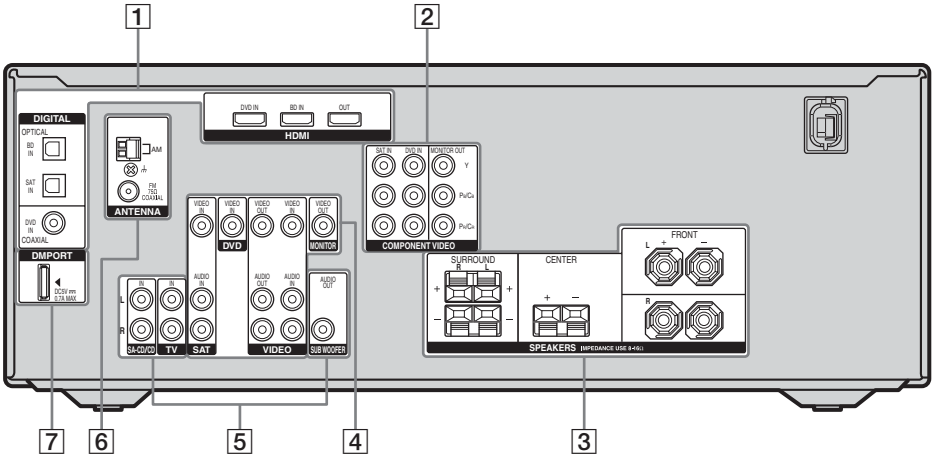
Name	Function
1 **SW**	Lights up when sub woofer selection is set to "YES" (page 37) and the audio signal is output from the SUB WOOFER jack.
2 **LFE**	Lights up when the disc being played back contains an LFE (Low Frequency Effect) channel and the LFE channel signal is actually being reproduced.
3 **D D**	Lights up when the receiver is decoding Dolby Digital signals. **Note** When playing a Dolby Digital format disc, be sure that you have made digital connections and that INPUT MODE is set to "AUTO" (page 50).
4 **D D PL/ D D PLII**	"D D PL" lights up when the receiver applies Pro Logic processing to 2 channel signals in order to output the center and surround channel signals. "D D PLII" lights up when the Pro Logic II Movie/Music decoder is activated. However, these indicators do not light up if both the center and surround speakers are set to "NO" (page 33) and you select a sound field using the A.F.D. button.

Name	Function
5 **OPT**	Lights up when BD input is selected. However, "UNLOCK" appears on the display if no digital signal is input through the OPTICAL jack. "OPT" also lights up when SAT input is selected if INPUT MODE is set to "AUTO" and the source signal is a digital signal being input through the OPTICAL jack.
6 **DTS**	Lights up when the receiver is decoding DTS signals. **Note** When playing a DTS format disc, be sure that you have made digital connections and that INPUT MODE is set to "AUTO" (page 50).
7 **MEMORY**	Lights up when a memory function, such as Preset Memory (page 48), etc., is activated.
8 **Tuner indicators**	Lights up when using the receiver to tune in radio stations (page 46), etc.
9 **Preset station indicators**	Lights up when using the receiver to tune in radio stations you have preset. For details on presetting radio stations, see page 47.
10 **D.RANGE**	Lights up when dynamic range compression is activated (page 32).

continued

Name	Function
11 **COAX**	Lights up when DVD input is selected. However, "UNLOCK" appears on the display if no digital signal is input through the COAXIAL jack.
12 **HDMI**	Lights up when the receiver recognizes a component connected via a HDMI IN jack (page 17).
13 **Playback channel indicators**	The letters (L, C, R, etc.) indicate the channels being played back. The boxes around the letters vary to show how the receiver downmixes the source sound (based on the speaker settings).
L	Front Left
R	Front Right
C	Center (monaural)
SL	Surround Left
SR	Surround Right
S	Surround (monaural or the surround components obtained by Pro Logic processing)
	Example: Recording format (Front/ Surround): 3/2.1 Output channel: When surround speakers are set to "NO" (page 33) Sound Field: A.F.D. AUTO

Rear panel



1 DIGITAL INPUT/OUTPUT section

	OPTICAL IN jacks	Connects to a DVD player, etc. The COAXIAL jack provides a better sound quality (page 17, 20, 22).
	COAXIAL IN jack	
	HDMI IN/ OUT jacks*	Connects to a DVD player or a Blu-ray disc player. The image and the sound are output to a TV (page 17).

2 COMPONENT VIDEO INPUT/ OUTPUT section

Green (Y) Blue (P_B/C_B) Red (P_R/C_R)	COMPONENT VIDEO INPUT/ OUTPUT jacks*	Connects to a DVD player, TV, or a satellite tuner. You can enjoy high quality image (page 19, 20, 22).

3 SPEAKERS section

		Connects to speakers (page 14).

4 VIDEO/AUDIO INPUT/OUTPUT section

White (L) Red (R)	AUDIO IN/ OUT jacks	Connects to video and audio jacks of a VCR, a DVD player, etc. (page 19–23).
Yellow	VIDEO IN/ OUT jacks*	

5 AUDIO INPUT section

White (L) Red (R)	AUDIO IN jacks	Connects to a Super Audio CD player, CD player, etc. (page 15).
Black	AUDIO OUT jack	Connects to a sub woofer (page 14).

continued

6 ANTENNA section

	FM ANTENNA jack	Connects to the FM wire antenna (aerial) supplied with this receiver (page 24).
	AM ANTENNA terminals	Connects to the AM loop antenna (aerial) supplied with this receiver (page 24).

7 DMPORT

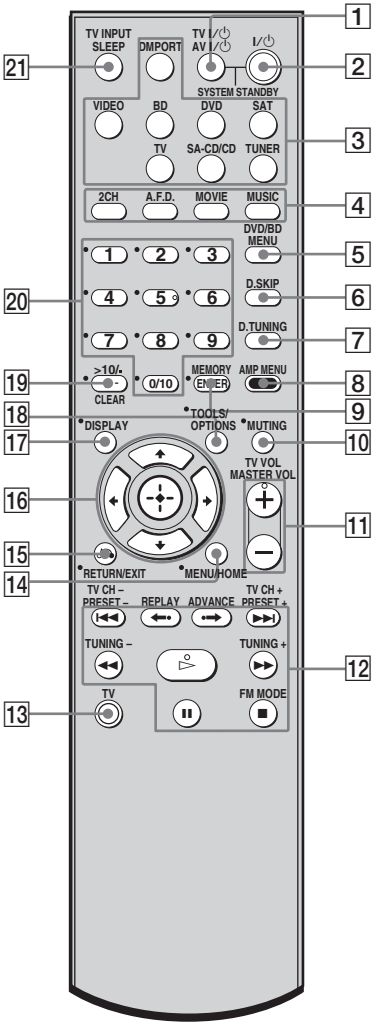
	DMPORT jack	Connects to a DIGITAL MEDIA PORT adapter (page 51).

* You can watch the selected input image when you connect the HDMI OUT or MONITOR OUT jack to a TV or projector (page 17, 19).

Remote commander

You can use the supplied remote to operate the receiver and to control the Sony audio/video components that the remote is assigned to operate (page 54).

RM-AAU020



Name	Function
1 **TV I/⏻ (on/standby)**	Press TV I/⏻ and TV (13) at the same time to turn the TV on or off.
AV I/⏻ (on/standby)	Press to turn on or off the Sony audio/video components that the remote is assigned to operate (page 54). If you press I/⏻ (2) at the same time, it will turn off the receiver and other components (SYSTEM STANDBY). **Note** The function of the AV I/⏻ switch changes automatically each time you press the input buttons (3).
2 **I/⏻ (on/standby)**	Press to turn the receiver on or off. To turn off all components, press I/⏻ and AV I/⏻ (1) at the same time (SYSTEM STANDBY).
3 **Input buttons**	Press one of the buttons to select the component you want to use. When you press any of the input buttons, the receiver turns on. The buttons are factory assigned to control Sony components. You can change the button assignments following the steps in "Changing button assignments" on page 54.
4 **2CH**	Press to select a sound field.
A.F.D.	
MOVIE	
MUSIC	
5 **DVD/BD MENU**	Press to display the menu of the DVD or Blu-ray disc on the TV screen. Then, use ↑, ↓, ←, → and ⊕ (16) to perform menu operations.
6 **D.SKIP**	Press to skip a disc when using a multi-disc changer.
7 **D.TUNING**	Press to enter direct tuning mode.

Name	Function
8 **AMP MENU**	Press to display the menu of the receiver. Then, use ↑, ↓, ←, → and ⊕ (16) to perform menu operations.
9 **MEMORY**	Press to store a station.
ENTER	Press to enter the value after selecting a channel, disc or track using the numeric buttons of the TV, VCR or satellite tuner.
10 **MUTING**	Press to turn off the sound temporarily. Press MUTING again to restore the sound. Press MUTING and TV (13) at the same time to activate the TV's muting function.
11 **TV VOL +[a]/–**	Press TV VOL +/– and TV (13) at the same time to adjust the TV volume level.
MASTER VOL +[a]/–	Press to adjust the volume level of all speakers at the same time.
12 **I◀◀ /▶▶I[b]**	Press to skip a track of the CD player, DVD player or Blu-ray disc player.
REPLAY ←· / ADVANCE ·→	Press to replay the previous scene or fast forward the current scene of the VCR, DVD player or Blu-ray disc player.
◀◀/▶▶[b]	Press to – search tracks in the forward/reverse direction of the DVD player. – start fast forward/rewind of the VCR, CD player or Blu-ray disc player.
▷[a][b]	Press to start playback of the VCR, CD player, DVD player or Blu-ray disc player.
II[b]	Press to pause playback or recording of the VCR, CD player, DVD player or Blu-ray disc player. (Also starts recording with components in recording standby.)

continued

Name	Function
■[b)]	Press to stop playback of the VCR, CD player, DVD player or Blu-ray disc player.
FM MODE	Press to select the FM monaural or stereo reception.
TV CH +/–	Press TV CH +/– and TV (13) at the same time to select preset TV channels.
PRESET +/–	Press to select – preset stations. – preset channels of the VCR or satellite tuner.
TUNING +/–	Press to scan a station.
13 **TV**	Press TV and the button you want at the same time to activate the buttons with orange printing.
14 **MENU/HOME**	Press to display the menu of the VCR, DVD player, satellite tuner or Blu-ray disc player on the TV screen. Press MENU/HOME and TV (13) at the same time to display the TV's menu. Then, use ↑, ↓, ←, → and ⊕ (16) to perform menu operations.
15 **RETURN/ EXIT ↶**	Press to – return to the previous menu. – exit the menu while the menu or on-screen guide of the VCR, DVD player, satellite tuner or Blu-ray disc player is displayed on the TV screen. Press RETURN/EXIT ↶ and TV (13) at the same time to return to the previous menu or exit the TV's menu while the menu is displayed on the TV screen.

Name	Function
16 ⊕, ↑/↓/←/→	After pressing DVD/BD MENU (5), AMP MENU (8) or MENU/HOME (14), press ↑, ↓, ← or → to select the settings. Then, press ⊕ to enter the selection if you have pressed DVD/BD MENU or MENU/HOME previously. Press ⊕ also to enter the selection of the receiver, VCR, satellite tuner, CD player, DVD player or Blu-ray disc player.
17 **DISPLAY**	Press to select information displayed on the TV screen of the VCR, satellite tuner, CD player, DVD player or Blu-ray disc player. Press DISPLAY and TV (13) at the same time to display TV's information on the TV screen.
18 **TOOLS/ OPTIONS**	Press to display and select the options of the DVD player or Blu-ray disc player. Press TOOLS/OPTIONS and TV (13) at the same time to display options applicable to the Sony TV.
19 **-/--**	Press to select the channel entry mode, either one or two digit of the VCR. Press -/-- and TV (13) at the same time to select the channel entry mode, either one or two digits of the TV.
>10/▪	Press to select – track numbers over 10 of the VCR, satellite tuner or CD player. – channel numbers of the Digital CATV terminal.
CLEAR	Press to clear a mistake when you press the incorrect numeric button.

Name	Function
20 **Numeric buttons (number 5[a])**	Press to – preset/tune to preset stations. – select track numbers of the CD player, DVD player or Blu-ray disc player. Press 0/10 to select track number 10. – select channel numbers of the VCR or satellite tuner. Press the numeric buttons and TV (13) at the same time to select the TV channels.
21 **TV INPUT**	Press TV INPUT and TV (13) at the same time to select the input signal (TV input or video input).
SLEEP	Press to activate the Sleep Timer function and the duration which the receiver turns off automatically.

[a] The number 5, MASTER VOL +, TV VOL +, and ▷ buttons have tactile dots. Use the tactile dots as references when operating the receiver.

[b] This button is also available for DIGITAL MEDIA PORT adapter operation. For details on the function of the button, see the operating instructions supplied with the DIGITAL MEDIA PORT adapter.

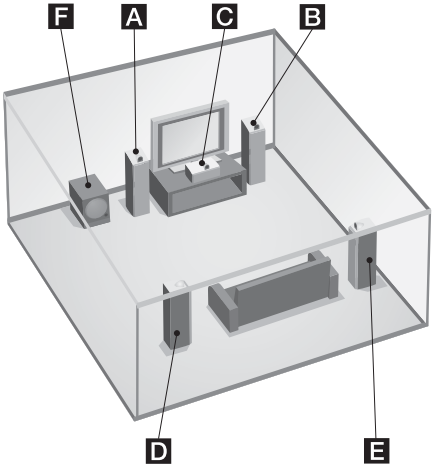
Notes

- Some functions explained in this section may not work depending on the model.
- The above explanation is intended to serve as an example only. Therefore, depending on the component, the above operation may not be possible or may operate differently than described.

1: Installing speakers

This receiver allows you to use a 5.1 channel system (5 speakers and one sub woofer). To fully enjoy theater-like multi channel surround sound requires five speakers (two front speakers, a center speaker, and two surround speakers) and a sub woofer (5.1 channel).

Example of a 5.1 channel speaker system configuration



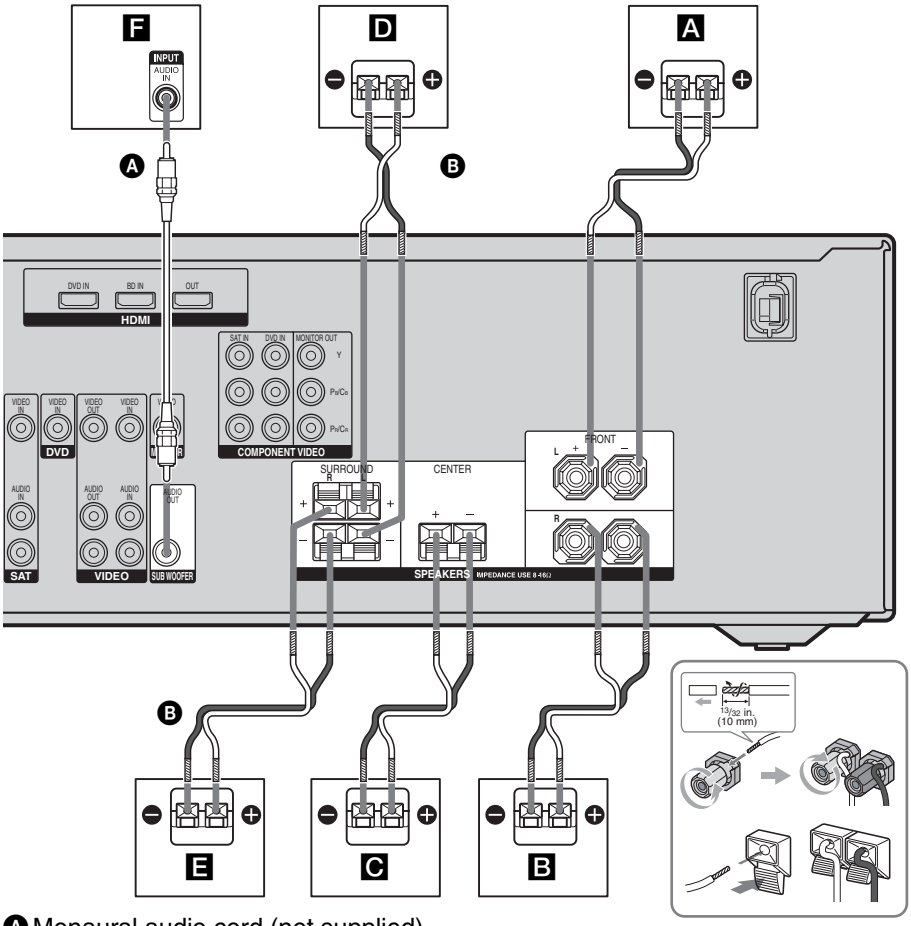
A Front speaker (left)
B Front speaker (right)
C Center speaker
D Surround speaker (left)
E Surround speaker (right)
F Sub woofer

Tip

Since the sub woofer does not emit highly directional signals, you can place it wherever you want.

2: Connecting speakers

Before connecting cords, make sure to disconnect the AC power cord (mains lead).



A Monaural audio cord (not supplied)
B Speaker cords (not supplied)

A Front speaker (left)
B Front speaker (right)
C Center speaker
D Surround speaker (left)
E Surround speaker (right)
F Sub woofer*

* When you connect a sub woofer with an auto standby function, turn off the function when watching movies. If the auto standby function is set to on, it turns to standby mode automatically based on the level of the input signal to a sub woofer, then sound may not be output.

Note

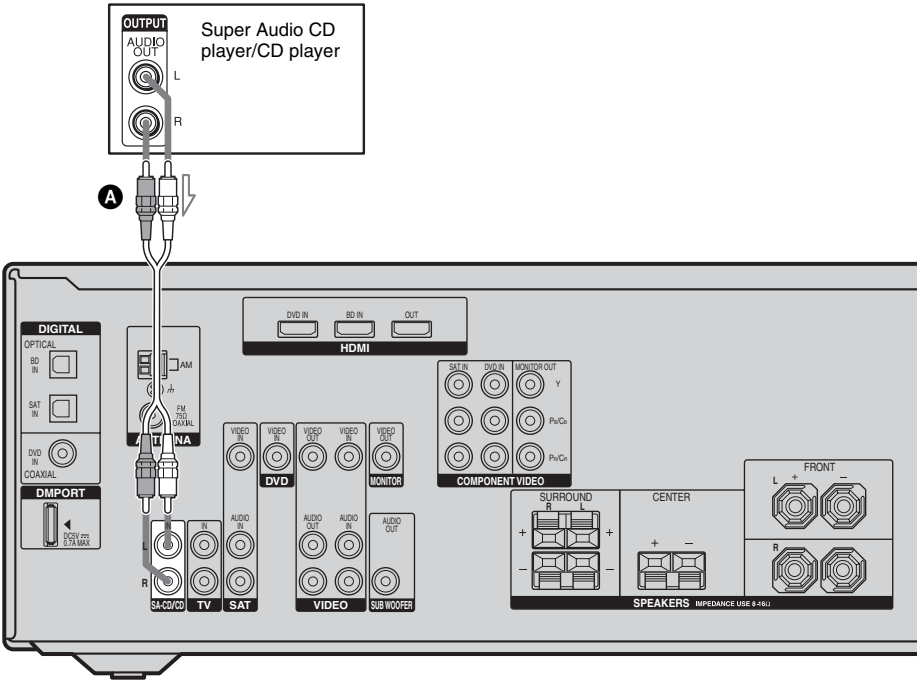
You can turn on or off the speaker system with the SPEAKERS (ON/OFF) button (page 5).

3a: Connecting the audio components

Connecting a Super Audio CD/ CD player

The following illustration shows how to connect a Super Audio CD/CD player. After connecting your Super Audio CD/CD player, proceed to “3b: Connecting the video components” (page 16) or “4: Connecting the antennas (aerials)” (page 24).

Before connecting cords, make sure to disconnect the AC power cord (mains lead).



A Audio cord (not supplied)

3b: Connecting the video components

How to connect your components

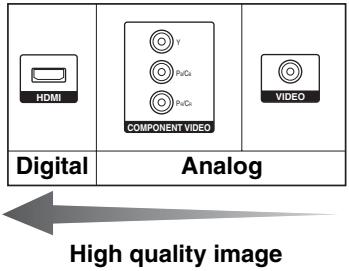
This section describes how to connect your video components to this receiver. Before you begin, refer to "Component to be connected" below for the pages which describe how to connect each component.
After connecting all your components, proceed to "4: Connecting the antennas (aerials)" (page 24).

Component to be connected

Component	Page
With HDMI jack	17
TV	19
DVD player/DVD recorder	20
Satellite tuner/Set-top box	22
VCR	23

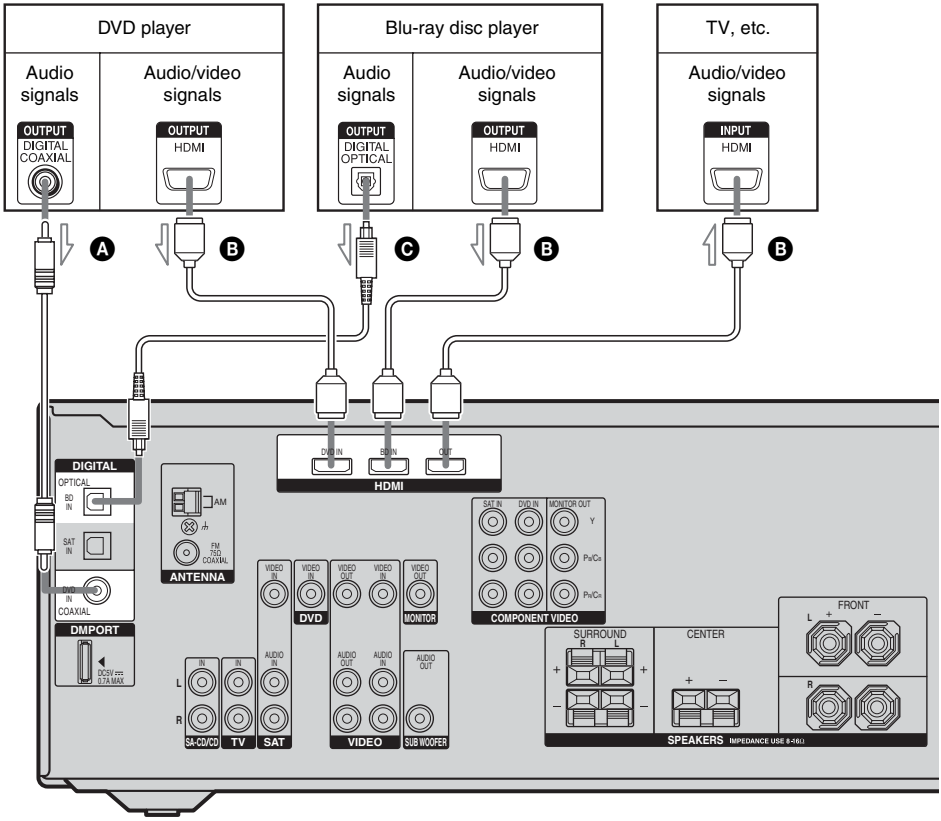
Video input/output jacks to be connected

The image quality depends on the connecting jack. Refer to the illustration that follows. Select the connection according to the jacks on your components.



Connecting components with HDMI jacks

HDMI is the abbreviated name for High-Definition Multimedia Interface. It is an interface which transmits video and audio signals in digital format.
Before connecting cables, make sure to disconnect the AC power cord (mains lead).



A Coaxial digital cord (not supplied)
B HDMI cable (not supplied)
We recommend that you use a Sony HDMI cable.
C Optical digital cord (not supplied)

continued

Notes on HDMI connections

- The sound is output from the TV speaker only when a playback component and this receiver, as well as this receiver and the TV are connected via the HDMI jack. To output the sound from the speakers and to take advantage of the multi channel surround sound, be sure to
  – connect the digital audio jacks on the playback component to the receiver.
  – turn off TV's volume or activate the TV's muting function.
- The multi/stereo area audio signals of a Super Audio CD are not output.
- Video signals input to the HDMI IN jack can only be output from the HDMI OUT jack. The input video signals cannot be output from the VIDEO OUT jacks, or MONITOR OUT jacks.
- Check the setup of the connected component if an image is poor or the sound does not come out of a component connected via the HDMI cable.
- This receiver may not be able to transfer video or audio signals with certain types of components.
- Refer to the operating instructions of each component connected for details.

Notes

- Be sure to turn on the receiver when the video and audio signals of a playback component are being output to a TV via the receiver. Unless the power is turned on, neither video nor audio signals will be transmitted.
- When connecting optical digital cords, insert the plugs straight in until they click into place.
- Do not bend or tie optical digital cords.

Tip

All the digital audio jacks are compatible with 32 kHz, 44.1 kHz, 48 kHz, and 96 kHz sampling frequencies.

Connecting a TV

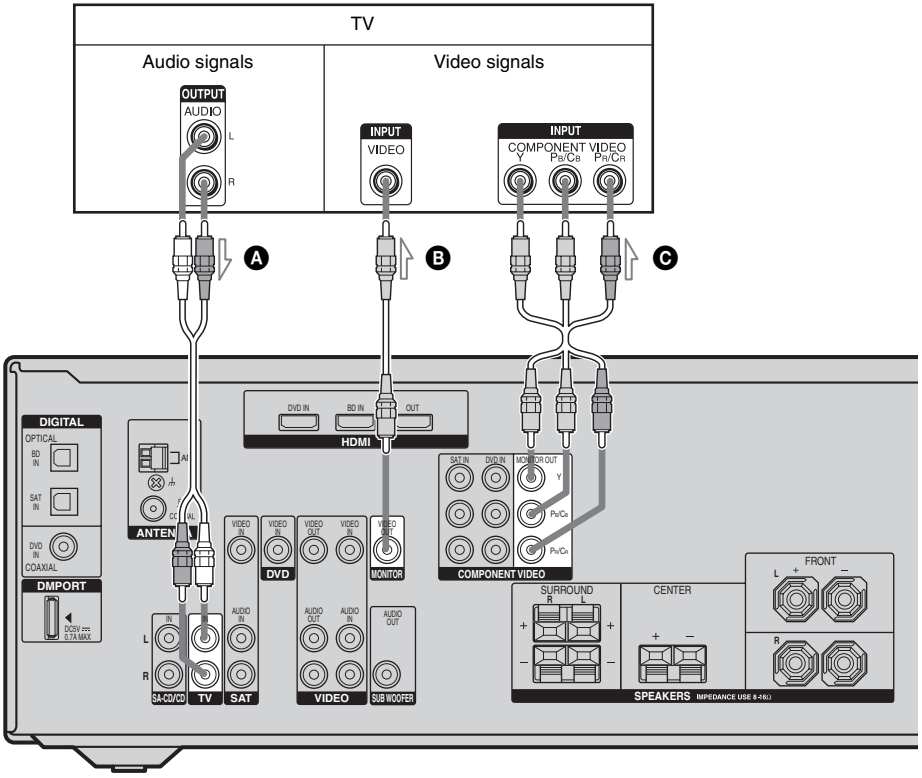
The image from a video component connected to this receiver can be displayed on a TV screen.
It is not necessary to connect all the cords. Connect audio and video cords according to the jacks of your components.
Before connecting cords, make sure to disconnect the AC power cord (mains lead).

Note

Be sure to turn on the receiver when the video and audio signals of a playback component are being output to a TV via the receiver. Unless the power is turned on, neither video nor audio signals will be transmitted.

Tips

- You can watch the selected input image when you connect the MONITOR OUT or HDMI OUT jack to a TV or projector.
- To output the sound of the TV from the speakers connected to the receiver, be sure to:
  – connect the audio output jacks of the TV to the TV AUDIO IN jacks of the receiver.
  – turn off TV's volume or activate the TV's muting function.



A Audio cord (not supplied)
B Video cord (not supplied)
C Component video cord (not supplied)

Connecting a DVD player/DVD recorder

The following illustration shows how to connect a DVD player/DVD recorder.
It is not necessary to connect all the cords. Connect audio and video cords according to the jacks of your components.
Before connecting cords, make sure to disconnect the AC power cord (mains lead).

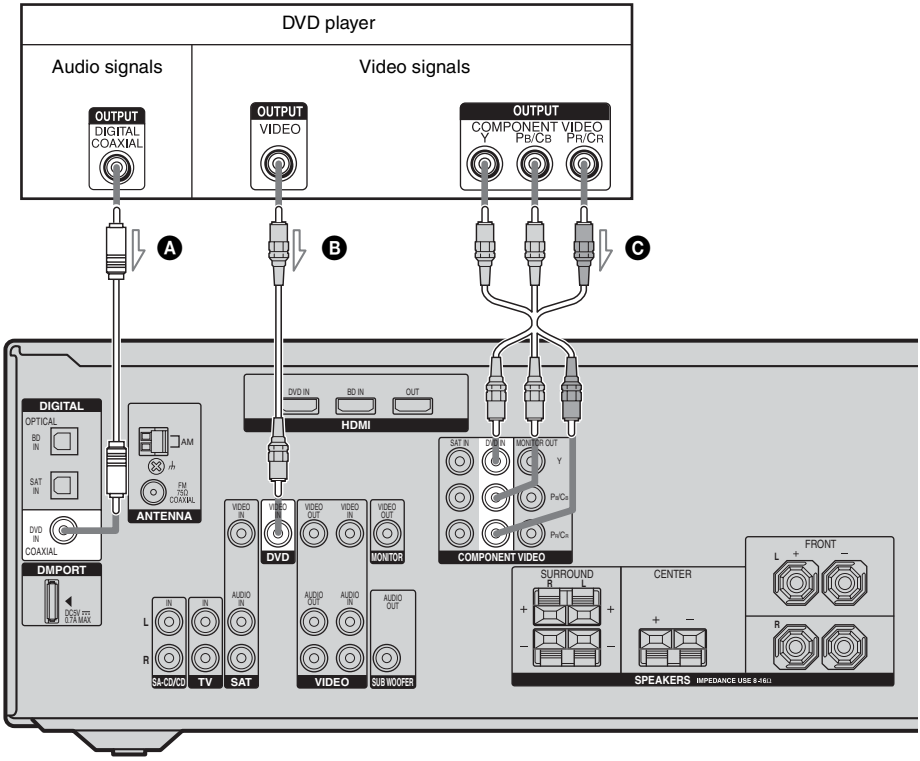
Notes

- To input multi channel digital audio from the DVD player, set the digital audio output setting on the DVD player. Refer to the operating instructions supplied with the DVD player.
- As this receiver does not have analog audio input jacks for DVD, connect your DVD player to the DIGITAL COAXIAL DVD IN jack on the receiver. To output sound from the front left/right speakers only, press 2CH.

Tip

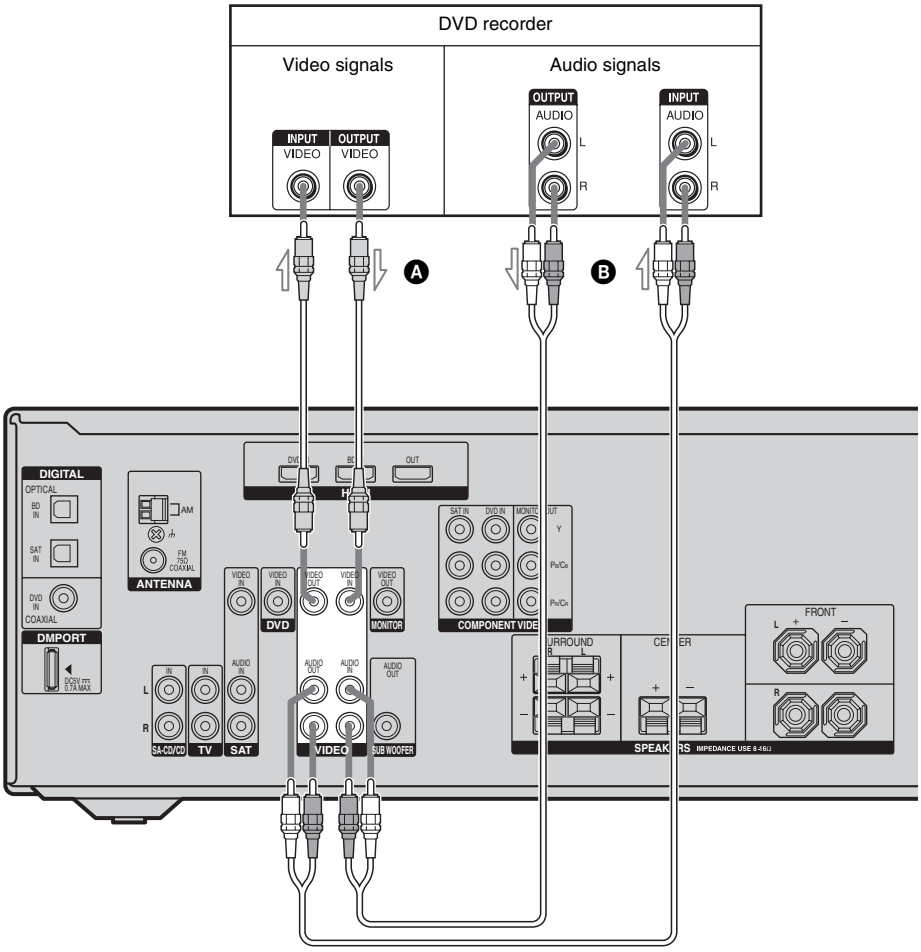
All the digital audio jacks are compatible with 32 kHz, 44.1 kHz, 48 kHz, and 96 kHz sampling frequencies.

Connecting a DVD player



A Coaxial digital cord (not supplied)
B Video cord (not supplied)
C Component video cord (not supplied)

Connecting a DVD recorder



A Video cord (not supplied)
B Audio cord (not supplied)

Notes

- Be sure to change the factory setting of the VIDEO input button on the remote so that you can use the button to control your DVD recorder. For details, see “Changing button assignments” (page 54).
- You can also rename the VIDEO input so that it can be displayed on the receiver’s display. For details, see “Naming inputs” (page 52).

Connecting a satellite tuner/ set-top box

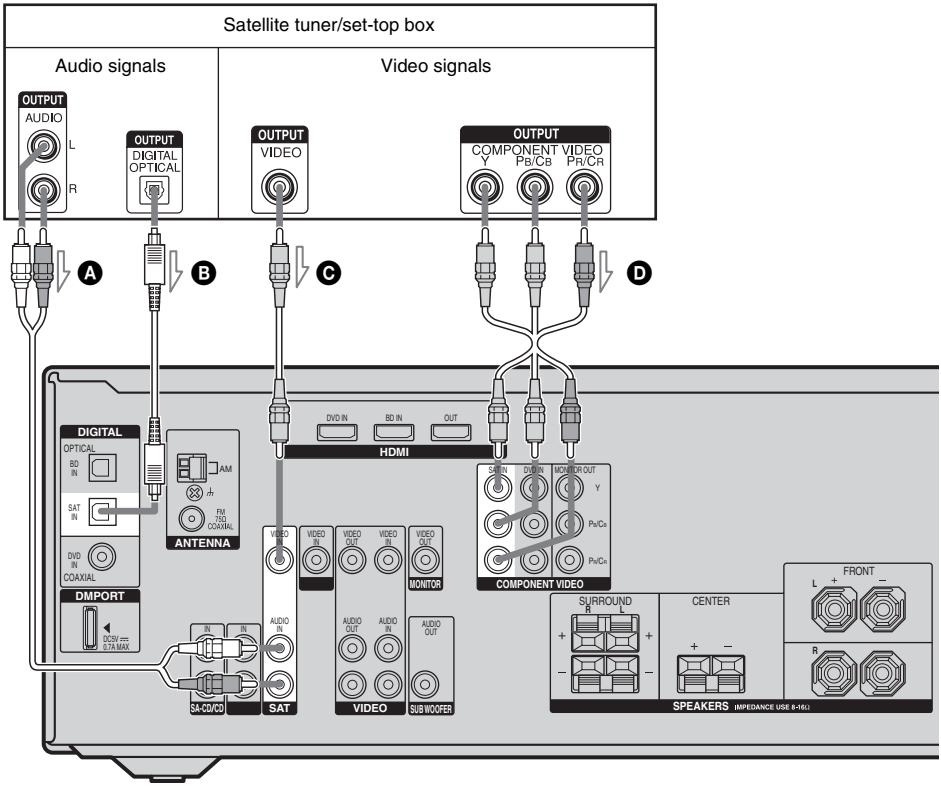
The following illustration shows how to connect a satellite tuner or a set-top box. It is not necessary to connect all the cords. Connect audio and video cords according to the jacks of your components.
Before connecting cords, make sure to disconnect the AC power cord (mains lead).

Notes

- When connecting optical digital cords, insert the plugs straight in until they click into place.
- Do not bend or tie optical digital cords.

Tip

All the digital audio jacks are compatible with 32 kHz, 44.1 kHz, 48 kHz, and 96 kHz sampling frequencies.

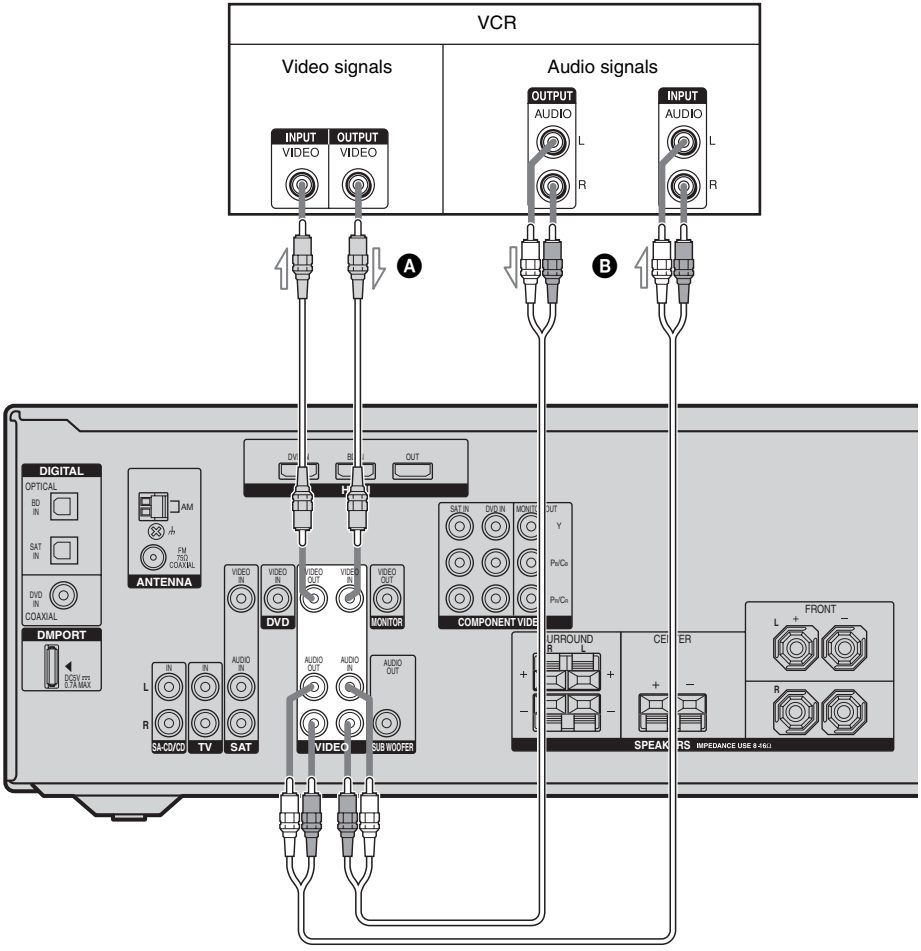


A Audio cord (not supplied)
B Optical digital cord (not supplied)
C Video cord (not supplied)
D Component video cord (not supplied)

Connecting components with analog video and audio jack

The following illustration shows how to connect a component which has analog jacks such as a VCR, etc.
It is not necessary to connect all the cords. Connect audio and video cords according to the jacks of your components.

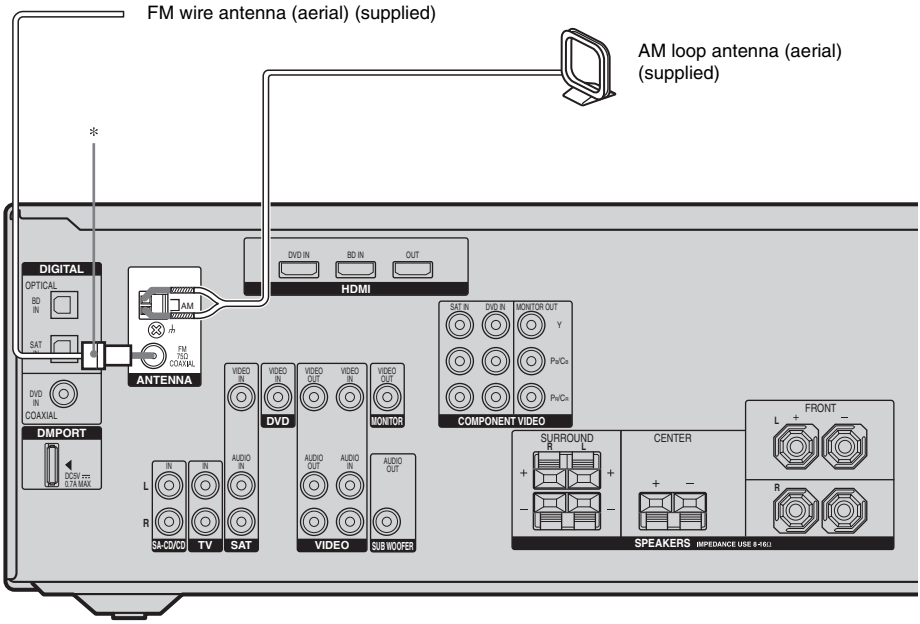
Before connecting cords, make sure to disconnect the AC power cord (mains lead).



A Video cord (not supplied)
B Audio cord (not supplied)

4: Connecting the antennas (aerials)

Connect the supplied AM loop antenna (aerial) and FM wire antenna (aerial).
Before connecting the antennas, make sure to disconnect the AC power cord (mains lead).



* The shape of the connector varies depending on the area code of this receiver.

Notes

- To prevent noise pickup, keep the AM loop antenna (aerial) away from the receiver and other components.
- Be sure to fully extend the FM wire antenna (aerial).
- After connecting the FM wire antenna (aerial), keep it as horizontal as possible.

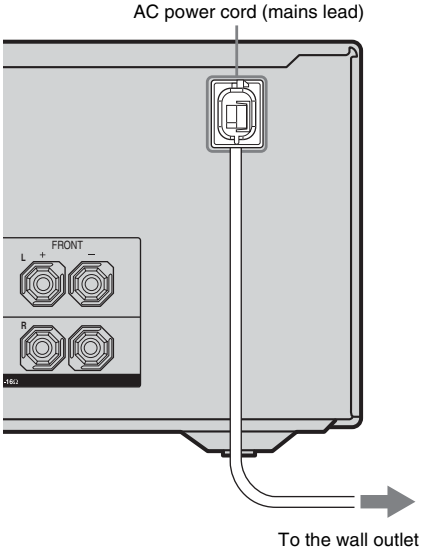
5: Preparing the receiver and the remote

Connecting the AC power cord (mains lead)

Connect the AC power cord (mains lead) to a wall outlet.

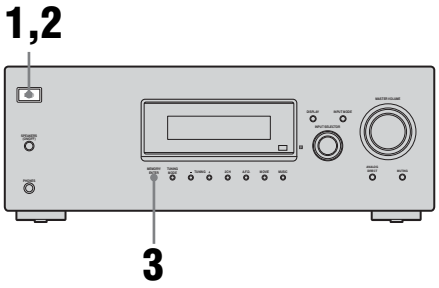
Notes

- Before connecting the AC power cord (mains lead), make sure that the stripped end of the speaker cords are not touching each other between the speaker terminals.
- Connect the AC power cord (mains lead) firmly.



Performing initial setup operations

Before using the receiver for the first time, initialize the receiver by performing the following procedure. This procedure can also be used to return settings you have made to their factory defaults.
Be sure to use the buttons on the receiver for this operation.



1 **Press I/⏻ to turn off the receiver.**

2 **Hold down I/⏻ for 5 seconds.**

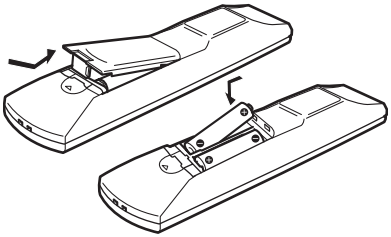
"PUSH" and "ENTER" appears on the display alternately.

3 **Press MEMORY/ENTER.**

After "CLEARING" appears on the display for a while, "CLEARED" appears.
All the settings you have changed or adjusted are reset to the initial settings.

Inserting batteries into the remote

Insert two R6 (size-AA) batteries in the RM-AAU020 Remote Commander. Observe the correct polarity when installing batteries.



Notes

- Do not leave the remote in an extremely hot or humid place.
- Do not use a new battery with old ones.
- Do not mix manganese batteries and other kinds of batteries.
- Do not expose the remote sensor to direct sunlight or lighting apparatuses. Doing so may cause a malfunction.
- If you do not intend to use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.
- When you replace the batteries, the remote buttons may be reset to their factory settings. If this happens, reassign the buttons again (page 54).

Tip

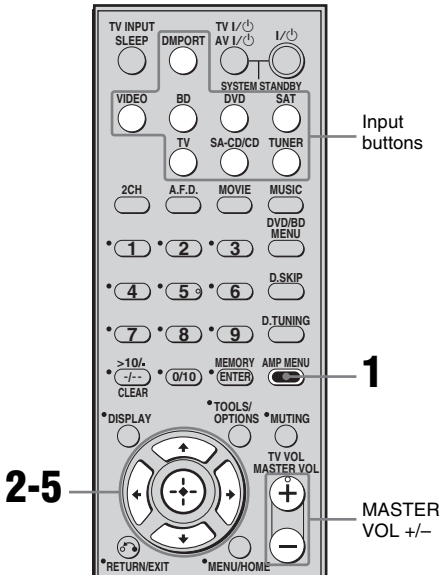
Under normal conditions, the batteries should last for about 3 months. When the remote no longer operates the receiver, replace all the batteries with new ones.

6: Adjusting the speaker levels and balance (TEST TONE)

You can adjust the speaker levels and balance while listening to the test tone from your listening position.

Tip

The receiver employs a test tone with a frequency centered at 800 Hz.



1 Press AMP MENU.

"1-LEVEL" appears on the display.

2 Press ⊕ or → to enter the menu.

3 Press ↑/↓ repeatedly to select "T. TONE".

4 Press ⊕ or → to enter the parameter.

5 Press ↑/↓ repeatedly to select “T. TONE Y”.

The test tone is output from each speaker in sequence as follows:
Front left → Center → Front right → Surround right → Surround left → Sub woofer

6 Adjust the speaker levels and balance using the LEVEL menu so that the level of the test tone sounds the same from each speaker.

For details, see “Adjusting the level (LEVEL menu)” (page 34).

Tips

- To adjust the level of all speakers at the same time, press MASTER VOL +/–. You can also use MASTER VOLUME on the receiver.
- The adjusted value is shown on the display during adjustment.

7 Repeat steps 1 to 5 to select “T. TONE N”.

You can also press any input buttons.
The test tone turns off.

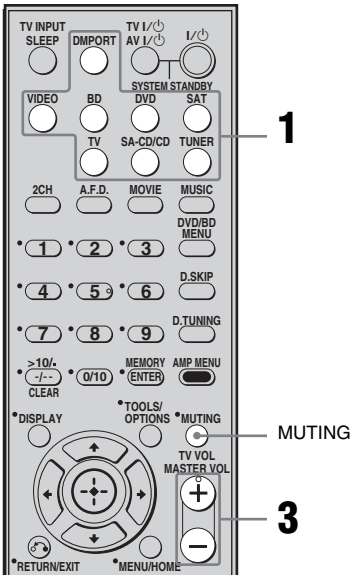
When a test tone is not output from the speakers

- The speaker cords may not be connected securely.
- The speaker cords may have the short-circuit problem.

Note

The test tone does not work when ANALOG DIRECT is selected.

Selecting a component



1 Press the input button to select a component.

You can also use INPUT SELECTOR on the receiver.

The selected input appears on the display.

Selected input [Display]	Components that can be played back
VIDEO [VIDEO]	VCR, etc., connected to the VIDEO jack
BD [BD]	Blu-ray disc player, etc., connected to the BD jack
DVD [DVD]	DVD player, etc., connected to the DVD jack
SAT [SAT]	Satellite tuner, etc., connected to the SAT jack
TV [TV]	TV, etc., connected to the TV jack
SA-CD/CD [SA-CD/CD]	Super Audio CD/CD player, etc., connected to the SA-CD/CD jack
TUNER [FM or AM band]	Built-in radio tuner
DMPORT [DMPORT]	DIGITAL MEDIA PORT adapter connected to DMPORT jack

2 Turn on the component and start playback.

3 Press MASTER VOL +/– to adjust the volume.

You can also use MASTER VOLUME on the receiver.

To activate the muting function

Press MUTING.

The muting function will be canceled when you do the following.

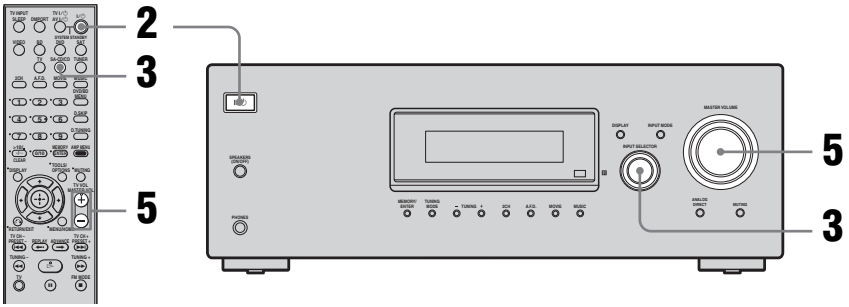
- Press MUTING again.
- Increase the volume.
- Turn off the receiver.

To avoid damaging your speakers

Before you turn off the receiver, be sure to turn down the volume level.

Listening/Watching a component

Listening to a Super Audio CD/CD



Notes

- The operation is described for a Sony Super Audio CD player.
- Refer to the operating instructions supplied with the Super Audio CD player or CD player.

Tip

You can select the sound field to suit the music. Refer to page 40 for details.
Recommended sound fields:
Classical: HALL
Jazz: JAZZ
Live concert: CONCERT

1 Turn on the Super Audio CD player/CD player, then place the disc on the tray.

2 Turn on the receiver.

3 Press SA-CD/CD.

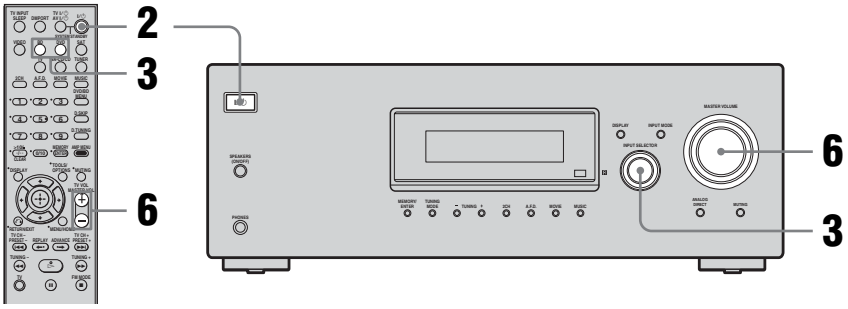
You can also use INPUT SELECTOR on the receiver to select “SA-CD/CD”.

4 Play back the disc.

5 Adjust to a suitable volume.

6 After you have finished listening to the Super Audio CD/CD, eject the disc and turn off the receiver and Super Audio CD player/CD player.

Watching a DVD /Blu-ray disc



Notes

- Refer to the operating instructions supplied with the TV and DVD player or Blu-ray disc player.
- Check the following if you cannot listen to multi channel sound.
  – Be sure this receiver is connected to the DVD player or Blu-ray disc player via a digital connection.
  – Be sure the digital audio output of the DVD player or Blu-ray disc player is set up properly.

Tips

- Select the sound format of the disc to be played, if necessary.
- You can select the sound field to suit the movie/music. Refer to page 40 for details.
  Recommended sound fields:
  Movie: C.ST.EX
  Music: CONCERT

1 **Turn on the TV and DVD player or Blu-ray disc player.**

2 **Turn on the receiver.**

3 **Press DVD or BD.**

You can also use INPUT SELECTOR on this receiver to select “DVD” or “BD”.

4 **Switch the input of the TV so that an image of the DVD or Blu-ray disc is displayed.**

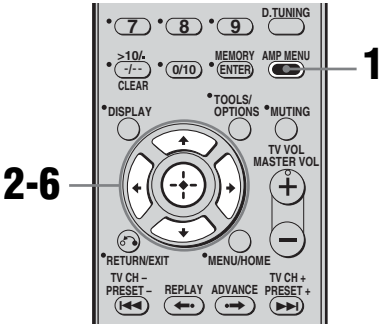
5 **Play back the disc.**

6 **Adjust to a suitable volume.**

7 **After you have finished watching the DVD or Blu-ray disc, eject the disc and turn off the receiver, TV and DVD player or Blu-ray disc player.**

Navigating through menus

By using the amplifier menus, you can make various adjustments to customize the receiver.



1 Press AMP MENU.

"1-LEVEL" appears on the display.

2 Press ↑/↓ repeatedly to select the menu you want.

3 Press ⊕ or → to enter the menu.

4 Press ↑/↓ repeatedly to select the parameter you want to adjust.

5 Press ⊕ or → to enter the parameter.

6 Press ↑/↓ repeatedly to select the setting you want.

The setting is entered automatically.

To return to the previous display

Press ←.

To exit the menu

Press AMP MENU.

Note

Some parameters and settings may appear dimmed on the display. This means that they are either unavailable or fixed and unchangeable.

Overview of the menus

The following options are available in each menu. For details on navigating through menus, see page 31.

Menu [Display]	Parameters [Display]	Settings	Initial setting
LEVEL [1-LEVEL] (page 34)	Test tone[a] [T. TONE]	T. TONE N, T. TONE Y	T. TONE N
	Front speaker balance[a] [FRT BAL]	BAL. L +1 to BAL. L +8, BALANCE, BAL. R +1 to BAL. R +8	BALANCE
	Center speaker level [CNT LVL]	CNT –10 dB to CNT +10 dB (1 dB step)	CNT 0 dB
	Surround left speaker level [SL LVL]	SUR L –10 dB to SUR L +10 dB (1 dB step)	SUR L 0 dB
	Surround right speaker level [SR LVL]	SUR R –10 dB to SUR R +10 dB (1 dB step)	SUR R 0 dB
	Sub woofer level [SW LVL]	SW –10 dB to SW +10 dB (1 dB step)	SW 0 dB
	Dynamic range compressor[a] [D. RANGE]	COMP. OFF, COMP. STD, COMP. MAX	COMP. OFF
TONE [2-TONE] (page 35)	Front speaker bass level [BASS LVL]	BASS –6 dB to BASS +6 dB (1 dB step)	BASS 0 dB
	Front speaker treble level [TRE LVL]	TRE –6 dB to TRE +6 dB (1 dB step)	TRE 0 dB
SUR [3-SUR] (page 35)	Sound field selection[a] [S.F. SELCT]	For details, see “Enjoying Surround Sound” (page 40).	A.F.D. AUTO for: VIDEO, BD, DVD, SAT; 2CH ST. for: TV, SA-CD/CD, TUNER, DMPORT
	Effect level[a] [EFFECT]	EFCT. MIN, EFCT. STD, EFCT. MAX	EFCT. STD
TUNER [4-TUNER] (page 36)	FM station receiving mode[a] [FM MODE]	FM AUTO, FM MONO	FM AUTO
	Naming preset stations[a] [NAME IN]	For details, see “Naming preset stations” (page 49).	